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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.		
10/617,171 07/11/2003		Ki-Tag Jeong	1293.1902	2998		
21171 75	590 08/25/2006	EXAMINER				
STAAS & HALSEY LLP			CHEN, T	CHEN, TIANJIE		
SUITE 700 1201 NEW YORK AVENUE, N.W.			ART UNIT	PAPER NUMBER		
WASHINGTO	-		2627			

Please find below and/or attached an Office communication concerning this application or proceeding.

1)⊠ Responsive to communication(s) filed on 11 August 2006. 2a)□ This action is FINAL. 2b)⊠ This action is non-final. 3)□ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213. Disposition of Claims 4)☑ Claim(s) 1-23 is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration. 5)□ Claim(s) is/are allowed. 6)☑ Claim(s) 1-23 is/are rejected. 7)□ Claim(s) is/are objected to. 8)□ Claim(s) is/are objected to. 8)□ Claim(s) is/are subject to restriction and/or election requirement. Application Papers 9)□ The specification is objected to by the Examiner. 10)□ The drawing(s) filed on is/are: a)□ accepted or b)□ objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11)□ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152. Priority under 35 U.S.C. § 119 12)□ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a)□ All b)□ Some * ○)□ None of: 1.□ Certified copies of the priority documents have been received. 2.□ Certified copies of the priority documents have been received in Application No 3.□ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). *See the attached detailed Office action for a list of the certified copies not received.				Application No.		Applicant(s)			
Tianjie Chen Tianjie Chen 2827	Office Action Summary			10/617,171		JEONG, KI-TAG			
The MAILING DATE of this communication appears on the cover sheet with the correspondence address — Period for Reply A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. Examinos for manybe so within which the provision of 37 CRT 1:3(1), in no event, however, may a reply be timely filed. If NO period for rigby is specified above, the maximum statutory period will apply and will expire SIX (8) MONTHS from the mailing date of this communication. Fallin to reply which his set of extended period for rigby is specified above, the maximum statutory paned will apply and will expire SIX (8) MONTHS from the mailing date of this communication. Fallin to reply which his set of extended period for rigby is specified above, the maximum statutory paned will apply and using the specified period for rigby is specified above, the maximum statutory paned will apply and using the specified period for rigby is specified above, the maximum statutory paned will apply and using the specified period for rigby is specified above, the maximum statutory paned will apply and use of this communication. Fall to reply which his exists of the summunication is specified above, the maximum statutory paned will be provided by the specified period for rigby is specified above, the maximum statutory paned will be provided by the specified period of the communication, ment if imay filed, may reduce any statutory and the specified period of the provided period of the provided period of the communication, ment if imay filed, may reduce any statutory and the specified period period of the provided period			E	Examiner		Art Unit			
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2nd Non-Final Rejection

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

1. Claims 1-23 rejected under 35 U.S.C. 102(e) as being anticipated by Takashima (US 6,787,941).

Claims 1, 5, and 20, Takashima cited a prior art in Figs. 8 and 10, which are attached in next page with added marks. The prior art shows an actuator of hard disk drive, having a base plate and a voice coil motor, to move a magnetic head to record and reproduce data with respect to a disk to a predetermined position on the disk, including: a suspension 6 supporting a slider 5, where the magnetic head is mounted; and an arm 4 included on the base plate 8 of the hard disk drive to pivot, an arm including the suspension at a leading end portion of the arm and a coil 7 of the voice coil motor coupled to a rear end portion of the arm, a set of magnets 15 (Fig. 8; column 1, line 22) arranged to be separated a predetermined distance from the coil (Fig. 8)/and normally above and below (Fig. 10; column 1; lines 18-19) a part of an effective portion of the coil during operation of the suspended actuator (for claim 20); wherein an area between the magnets is an effective portion and an area (where the connection mold resides) outside of the magnets is an non-effective portion and, the

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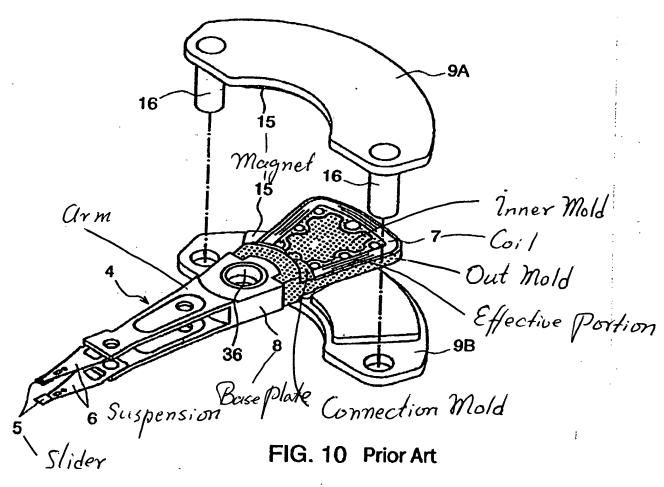
U.S. Patent

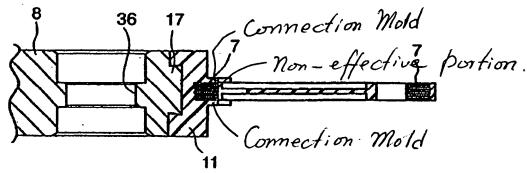
Sep. 7, 2004

Sheet 6 of 10

US 6,787,941 B2

FIG. 8 Prior Art





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the effective portion.

coil is coupled to the rear end portion of the arm by an outer mold (See Figs. 8 and 10) formed to encompass an outer circumference of the coil, an inner mold is formed inside the coil, and a connection mold connecting the outer mold and the inner mold is formed on at least part of a surface of the non-effective portion of the coil and not on

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Claim 6, Takashima's prior art also shows a hard disk drive that reproduces data stored in a disk or records data on the disk by using a magnetic head, the hard disk drive including: an actuator including an arm included on a base plate of the hard disk drive to pivot and a suspension at a leading end portion of the arm and supporting a slider on which the magnetic head is mounted; and a voice coil motor including a coil coupled to a rear end portion of the arm and a magnet arranged, which is inherently separated a predetermined distance from the coil and to face at least one of upper and lower surfaces of the coil, and pivoting the actuator in a predetermined direction by the interaction between current flowing through the coil and a magnetic field formed by the magnet.

Claims 2, 7, 12, and 17; Takashima's prior art further shows that the connecting mold is formed at an entire surface of the non-effective portion of the coil.

Claims 3, 8, 13, and 18; Takashima's prior art further shows that the connection mold is formed in a middle portion along a lengthwise direction of the non-effective portion of the coil.

Claims 4, 9, 14, and 19; Takashima's prior art further shows that the connection mold is formed at at least two positions along a lengthwise direction of the non-effective portion of the coil.

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Claims 5, 10, 15, 20; Takashima's prior art further shows that the connecting

mold is also formed on the lower surface of the non-effective portion of the coil(Fig.

10).

Claim 21, Takashima's prior art shows a subassembly of a hard disk drive,

including: a voice coil motor including a coil that has a upper and lower surface with a

non-effective portion; an inner mold formed inside said coil; an outer mold formed on

an outer circumference of said coil; and a connection mold connecting said outer mold

and said inner mold wherein the connection mold is formed both on said upper and

said lower surface of the non- effective portion of the coil.

Claim 22, as described above, Takashima's prior art shows an actuator

assembly of a hard disk drive, comprising: an arm, comprising: a voice coil, an outer

mold holding the voice coil on an outside; an inner mold holding the voice coil on an

inside; and a connection mold connecting the inner mold and the outer mold across

the coil.

Claim23, Takashima further shows in Fig. 10 attached in next page that the

arm has a pivot, the coil has a side away from the pivot and the connection mold is

located on the side away from the pivot.

Response to Arguments

2. Applicant's arguments with respect to claims have been considered but are

moot in view of the new ground(s) of rejection.

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Any inquiry concerning this communication or earlier communications from the

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examiner should be directed to Tianjie Chen whose telephone number is 571-272-

7570. The examiner can normally be reached on 8:00-4:30, Mon-Fri.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Hoa Nguyen can be reached on 571-272-7579. The fax phone number for

the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the

Patent Application Information Retrieval (PAIR) system. Status information for

published applications may be obtained from either Private PAIR or Public PAIR.

Status information for unpublished applications is available through Private PAIR

only. For more information about the PAIR system, see http://pair-direct.uspto.gov.

Should you have questions on access to the Private PAIR system, contact the

Electronic Business Center (EBC) at 866-217-9197 (toll-free).

PRIMARY EXAMINER